Attorney Docket No. 039153-0529 (G1234)

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Ercan Adem

Title:

METHOD OF ULTRA-LOW ENERGY

ION IMPLANTATION TO FORM

ALLOY LAYERS IN COPPER

Appl. No.:

10/803,852

Filing Date:

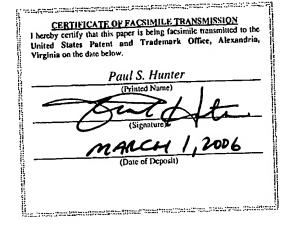
3/18/2004

Examiner:

Gurley, Lynne Ann

Art Unit:

2812



DECLARATION UNDER 37 C.F.R. 1.131

Commissioner for Patents and Trademarks Washington, D.C. 20231

Dear Examiner Gurley:

I, ERCAN ADEM state and declare that:

- I am the inventor of the invention recited in claims 1, 3, and 5-19 of the patent application identified above and am an employee of Advanced Micro Devices, Inc., the Assignee of the patent application.
- On or before August 21, 2001, I conceived in the United States the subject matter of Claims 1, 3, and 5-19 as evidenced by the attached Exhibit A.
- Exhibit A (5 pages), titled "AMD INVENTION DISCLOSURE," marked "G1234," is a copy of an invention disclosure document used in the routine business practice of Advanced Micro Devices, Inc. for disclosing inventive subject matter to corporate patent counsel.
- Exhibit A, received by AMD's Tech. Law Department on August 21, 2001, discloses the base subject matter of Claims 1, 3, and 5-19. Exhibit A was completed during a patent harvesting session dated August 21, 2001.
- I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these 5. statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

-1-

Application No. 10/803,852

MADI_621215.1

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TUESDAY, AUGUST 21, 2001 COPPER ALLOY PATENT HARVESTING SESSION

GROUP 2: ROOM C-9 \$ 10

Technical Leader: Steve Avanzino

TOPIC: INTEGRATION

PRIO	RITY	
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C	D	

AMD INVEN	TION DISCL	OSURE	TLD ID#	61234 2110, return to MS68,	_ Rec'd date	- 4- 140550
Project:, Pro	duct: , Process	s: X, Techn	ology,	to which the inven	tion applies (i	dentify):
List 2 to 5 key wo	ords useful to searc	ch by to find	patents or a	art related to this i	nvention:	1DF#3a.
Working title of i	invention: USE	UMIL	au lite	n Implan	tation	(ILEII)
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→INVENTOR/	SESSION PARTIC	CIPANT ADD	RESS INF	ORMATION IS OF	V THE NEXT	PAGE (1A)←
Inventor's signat	ure :				da	te :
Inventor's printed	full name:			C	itizenshin:	
Employee #:	Extension:	Mail	ston:	Home telephone:()	
Division:	Directorate:	Dept #	Dent :	Manager	/	
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Co-Inventor's sig	nature :			•	dat	e:
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Division:	Directorate:	Dept #:	Dept:	Manager:	/	
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Name(s) of attorne	ey(s) preferred by in	eventor(s) to p	repare pater	nt application, if kn	own:	•
						
		LAW FIRM:				
	ATT(ORNEYS: R	on Coslick	and Rick Malone		
			DUNID R	Lumenthal		
Witness 1 initial: _		Witness 2 in	nitial:			
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TDG-Copper Alloy Patent Harvesting Session Group 2 Topic: Integration Issues

Technical Leader: Steven C. Avanzino Law Firm: Foley & Lardner (David Blumenthal, Ron Coslick & Rick Malone)

PARTICIPANT ADDRESSES Tuesday, August 21, 2001—ROOMS C-9&10

Zip Code	94087	95014	94061	94024	94115	95035	94306	95129
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State	Š	ర్ట	S	Š	Ş	S	S	Ş
City	Sunnyvale	Cupertino	Redwood City	Los Altos	San Francisco	Milpitas	Palo Alto	San Jose
Address	729 Liverpool Way	7504 Barnhart Place	2666 Hampton Avenue	1100 Runnymead Drive	2106 B Scott Street	1307 Edsel Drive	857 San Jude Avenue	6005 Wellfleet Way
Fax#	408/774- 8812	408/749- 3851	408/774- 8812	408/749- 3851	408/774- 8812	408/749- 5585	408/749- 3851	408/749- 3851
Work #	408/749-	408/749-2143	408/749- 5887	408/749- 4312	408/749- 4091	408/749- 4574	408/749- 2253	408/749- 2437
Mail Stop	32	79	32	79	32	143	79	79
Dept.	07370	07881	07370	07881	07370	07541	07881	07881
Employe e #	022538	019717 07881	022258	007140 07881	022733	024853	022732	063099
Citizenship Employe	UNITED	USA	USA	USA	USA	NDIA	USA	USA
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AMD INVENTION DISCLOSURE TLD ID# Rec'd date
California x42110, return to MS68, Texas x55964 return to MS562, Dresden x83401 Silke Kretzschmar at MS E21-PP. Identify known relevant art (patents, publications, products): White Conditions are the conditions of the conditio
Sto Will As some functions:
State the problem solved by this invention: ULETT English unplantation of
Multipude of ellments into the SEED by layer, inthusit the hull for manifestive of his Moy target used his PVD 1581. Brief description and/or sketch of invention (please attach copies of AMD patent notebook pages, reports or
drawings): ULE Im Implanted Departs and Seed.
Ramer (CV) To No.
TIA TO TO
- Many ellments can be implanted without manufacture & solid G-Alloy Logests.
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Patent notebook # Page numbers Number of drawings
Witness 1 initial: Witness 2 initial:
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AMD INVENTION DISCL	OSURE	TLD ID#		Rec'd date			
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Advantages (check all that apply):		·					
avoids existing patent(s)	improves pro		<u> </u>	simplifies manufacturing			
new function	improves acc			improves wear characteristic			
improves density	improves eff	iciency		improves signal to noise ratio			
increases operating speed	fewer compo	onent parts					
improves reliability	reduces cost	of manufacturing					
Discussion of advantage of the inventogen (emphasize technical advance in the							
First sysies and description # of the state		Time	10-				
First written description* of invention	n, date:	First external disc					
Date of first drawing*: Date invention first reduced to practic	na.	Date of first exter					
Made by (name):		External disclosure under NDA* No Yes					
Tested by (name):		First external disclosure or use by: presentation , announcement , sample , sale , other					
			Date of Non-Disclosure Agreement*, if any:				
Date of first computer simulation:		Date of first publication*:					
	e of first successful test:						
any of above occurred outside of US	A [_]	Publication name:					
	n exist to publish, disclose or sell? If so, where and when?						
Was invention conceived, constructed another company: No, Yes If yes, name of AMD business contact Was invention jointly developed with If yes, Company name	d or tested pursual. If yes, compute and contract no	ant to the performandany name					
I have read and understood this dis	sclosure and rea	nd and signed each	pag	e of the attachments:			
Witness 1 signature:							
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Witness 2 signature:		Date:					
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AMD INVENTION DISCLOSURE TLD ID# Rec'd date California x42110, return to MS68, Texas x55964 return to MS562, Dresden x83401 Silke Kretzschmar at MS E21-PP.
DISCLOSURE EVALUATION (Entries from this point on are by the Reviewer)
Does this invention add value to the AMD intellectual property portfolio? Yes [], No [], Explain:
Do you know of any relevant art? Yes , No , If yes, attach a copy and explain:
What application(s) do you foresee for this invention?
I estimate the Value* of this invention disclosure is A , B , C , D , *use worksheet "Valuing Invention Disclosures and Patents". it is , is not recommended to AMD for U.S. patent application filing, it is , is not recommended to AMD for foreign patent application filing, it is , is not recommended to be held as an AMD trade secret, Give this high priority , normal , low priority , in patent application writing. GUIDELINES AND CONSIDERATIONS FOR FOREIGN FILING DECISION Filing foreign patent applications is costly. We should choose to do it only when conditions warrant. ALL CONDITIONS BELOW MUST APPLY IN ORDER TO INITIATE A FOREIGN FILING: Invention is High-Valued (A, B)*, and Invention is in our technology path (usage), and
 Invention usage is detectable by inspection of product, and Invention is relatively hard to design around, and Competitor is operating in the country of interest. (see ca000000.xls tabulation of "Factory Sites outside the USA .)
I recommend filing patent applications in foreign countries checked below: Japan S.Korea Daiwan D.K. France Germany D.K.
Japan
Reviewer's signature: Employee #: Date:
Reviewer's printed name: If foreign filing is checked, route to Div. VP for signature.
VP or Designate approves foreign filing (signature)
Reviewer: Complete this page and send disclosures to TLD for patent application filing.
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